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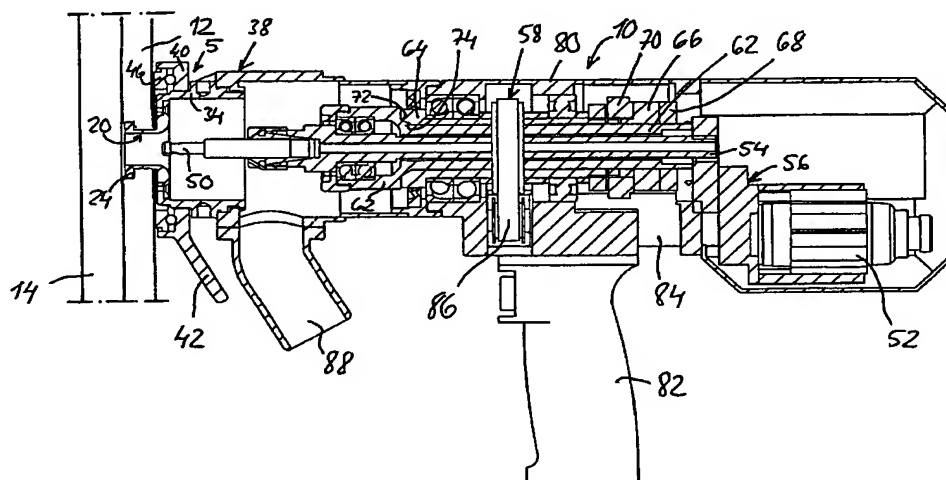
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: A DEVICE FOR FIXATION OF A PORTABLE DRILLING OR MILLING MACHINE ON A HOLE TEMPLATE.



(57) Abstract: A device temporary fixation of a portable cutting machine (10) to a template (12) for making holes and/or recesses in a workpiece (14), comprising: a guide sleeve (20) having a tubular hub with an outer diameter corresponding to an inner diameter of an aperture in the template (12), a forward end of the hub (30) having radially extending lugs (24) configured and located so as to match corresponding recesses in the aperture during insertion of the guide sleeve (20) therein and to obtain a locking engagement with an inner surface of the template (16) after a partial rotation of the guide sleeve (20) relative to the template (12), and a rearward end of the hub having a tubular adapter socket (34) to be mounted to a nose portion (38) of the cutting machine (10); and a tensioning unit (40, 42, 46) mounted to the adapter socket (34) for axial displacement relative thereto and having a forward end surface for engagement with an outer surface of the template (12).

INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 2003/001445

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: B23B 49/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: B23B, B23C, B23Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI, EPODOC, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5088171 A (TAKASHI SUZUKI), 18 February 1992 (18.02.1992), figures 2,9-12B, abstract --	1-5
Y	US 6382890 B1 (DAG G. LINDERHOLM), 7 May 2002 (07.05.2002), figures 1,4,6, abstract --	
A	DE 4125501 A1 (HIRSCHLER OBERFLÄCHENTECHNIK GMBH), 4 February 1993 (04.02.1993), figures 1,4, abstract --	1-5
A	DE 4118104 A1 (HIRSCHLER OBERFLÄCHENTECHNIK GMBH), 12 November 1992 (12.11.1992), figure 3, abstract --	1-5

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

10 February 2004

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 2003/001445

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>EP 0761351 A1 (COOPER INDUSTRIES, INC.), 12 March 1997 (12.03.1997), figures 10,12, abstract</p> <p>--</p> <p>WO 0115843 A1 (SYKES, EDWARD), 8 March 2001 (08.03.2001), figure 6, abstract</p> <p>-- -----</p>	<p>1-5</p> <p>1-5</p>

INTERNATIONAL SEARCH REPORT

International application No.
PCT/SE 2003/001445

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

See extra sheet.

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-5

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

Lack of unity

The separate inventions are:

1. Claims 1-5 are directed to a device for fixation of a portable cutting machine to a template for making holes and/or recesses in a work piece.
2. Claims 6-7 are directed to an orbital machining apparatus with a radial offset mechanism.

The above groups of inventions do not satisfy the requirements of unity of invention. The groups of inventions are not so linked as to form a single general inventive concept (PCT Rule 13.1 and 13.2).

The "special technical features" in group one relate to a device for fixation of a portable cutting machine to a template for making holes and/or recesses in a work piece comprising a guide sleeve with a hub with radially extending lugs arranged to match corresponding recesses in the template.

The "special technical features" in group two relate to an orbital machining apparatus with a radial offset mechanism comprising a locking mechanism.

There is no technical relationship among these inventions involving one or more of the same or corresponding technical features.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 2003/001445

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